

Reduce Accidents and Incidents Caused by Human Fatigue



1989 DOT Fatigue Recommendations

- **I-89-1**: Research – Closed Acceptable
- **I-89-2**: Education – Closed Acceptable
- **I-89-3**: Hours of Service Regulations –
Closed Superseded



Aviation (Flight Crew)

- **A-94-194, A-95-113, A-06-10**
- Flight/duty time limits set in 1938 and 1958
- 1995 NPRM to update flight/duty time regulations – no final rule issued
- Part 135 Aviation Rulemaking Committee



Aviation (Maintenance)

- **A-97-71**
- FAA has conducted research on fatigue in maintenance, but no rulemaking proposed
- FAA stated it plans to address fatigue through education and training
- February 2007 letter to FAA



Aviation Fatigue

Proposed Safety Board Action

- Keep issue area on Most Wanted List
- Keep red timeliness designation:
Unacceptable Response

Timeliness Classification

RED



Marine

- **M-99-1**
- Work-hour limitations date to early 1900s
- International Maritime Organization
- Coast Guard and Maritime Transportation Act
- Crew Endurance Management System (CEMS)
 - Focus on multiple factors that affect fatigue
 - Voluntary program



Marine Fatigue

Proposed Safety Board Action

- Keep issue area on Most Wanted List
- Reclassify M-99-1 'Open – Unacceptable'
- Assign red timeliness designation: Unacceptable Response

Timeliness Classification

RED



Pipeline

- **P-99-12**
- No Federal hours-of-service regulations exist for controllers of pipeline systems
- PHMSA Advisory Bulletin
- PIPES Act of 2006



Pipeline Fatigue

Proposed Safety Board Action

- Keep issue area on Most Wanted List
- Keep yellow timeliness designation:
Acceptable response – progressing slowly.

Timeliness Classification

YELLOW



Railroad

- First fatigue-related recommendations in 1980s
- R-99-2 added to MWL in 1999
- ‘Closed – Reconsidered’ due to lack of statutory authority in 2003



Railroad

- 2004 Macdona, TX collision resulted in 2 recommendations to FRA
 - R-06-14: Scientific principles for work schedules
 - R-06-15: Limit “limbo time”
- NTSB Testimony to Congress
- Draft Congressional legislation



Railroad Fatigue

Proposed Safety Board Action

- Add issue area ‘Reduce Accidents and Incidents Caused by Human Fatigue’ (Railroad) to Most Wanted List
- Add recommendations R-06-14 and R-06-15
- Assign green timeliness designation: Acceptable response – progressing in a timely manner

Timeliness Classification

GREEN



Department of Transportation

- **I-99-1**: Require modal administrations to establish scientifically-based HOS regulations
- DOT Human Factors Coordinating Committee Operator Fatigue Management (OFM) Program



DOT Fatigue

Proposed Safety Board Action

- Remove recommendation I-99-1 from Most Wanted List

